

SEQUENCE LISTING

<110> ML Laboratories PLC

<120> Immunosuppression

<130> P15700WO

<140> PCT/GB99/04200

<141> 1999-12-17

<150> 9827921.9

<151> 1998-12-19

<150> 9925015.1

<151> 1999-10-23

<160> 39

<170> PatentIn Ver. 2.1

<210> 1

<211> 288

<212> PRT

<213> Homo sapiens

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Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Val	Ser	Gln	Asp
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180

185

190

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Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
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Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
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 Ser Phe Asp Ser Asp Ser Trp Thr Leu Arg Leu His Asn Leu Gln Ile
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 Lys Asp Lys Gly Leu Tyr Gln Cys Ile Ile His His Lys Lys Pro Thr
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 Gly Met Ile Arg Ile His Gln Met Asn Ser Glu Leu Ser Val Leu Ala
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 Asn Phe Ser Gln Pro Glu Ile Val Pro Ile Ser Asn Ile Thr Glu Asn
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 Val Tyr Ile Asn Leu Thr Cys Ser Ser Ile His Gly Tyr Pro Glu Pro
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 Lys Lys Met Ser Val Leu Leu Arg Thr Lys Asn Ser Thr Ile Glu Tyr
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 Asp Gly Ile Met Gln Lys Ser Gln Asp Asn Val Thr Glu Leu Tyr Asp
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 225 230 235 240
 Pro Trp Ile Thr Ala Val Leu Pro Thr Val Ile Ile Cys Val Met Val
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<213> Homo sapiens

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Lys Tyr Cys Asp Pro Asn Leu Gly Leu Arg Val Gln Gln Lys Gly Thr
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Ser Glu Ala Cys Glu Ser Cys Val Leu His Arg Ser Cys Ser Pro Gly
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Phe Gly Val Lys Gln Ile Ala Thr Gly Val Ser Asp Thr Ile Cys Glu
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Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
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Cys His Pro Trp Thr Ser Cys Glu Thr Lys Asp Leu Val Val Gln Gln
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Lys Ala Pro His Pro Lys Gln Glu Pro Gln Glu Ile Asn Phe Pro Asp
225 230 235 240

Asp Leu Pro Gly Ser Asn Thr Ala Ala Pro Val Gln Glu Thr Leu His
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Glu Ser Pro Phe Phe Ser Trp Arg Thr Gln Ile Asp Ser Pro Leu Asn
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Gly Lys Val Thr Asn Glu Gly Thr Thr Ser Thr Leu Thr Met Asn Pro
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Val Ser Phe Gly Asn Glu His Ser Tyr Leu Cys Thr Ala Thr Cys Glu
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Ser Arg Lys Leu Glu Lys Gly Ile Gln Val Glu Ile Tyr Ser Phe Pro
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Glu Ile Asp Leu Leu Lys Gly Asp His Leu Met Lys Ser Gln Glu Phe
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180 185 190

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195 200 205

Ala Val Lys Glu Leu Gln Val Tyr Ile Ser Pro Lys Asn Thr Val Ile
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Thr Cys Ser Ser Glu Gly Leu Pro Ala Pro Glu Ile Phe Trp Ser Lys
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Lys Leu Asp Asn Gly Asn Leu Gln His Leu Ser Gly Asn Ala Thr Leu
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Thr Leu Ile Ala Met Arg Met Glu Asp Ser Gly Ile Tyr Val Cys Glu
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Gln Glu Lys Pro Phe Thr Val Glu Ile Ser Pro Gly Pro Arg Ile Ala
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<213> Mus musculus

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115 120 125
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145 150 155 160
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165 170 175
Gly Gly Phe Pro Lys Pro Arg Phe Ser Trp Leu Glu Asn Gly Arg Glu
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Leu Pro Gly Ile Asn Thr Thr Ile Ser Gln Asp Pro Glu Ser Glu Leu
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Tyr Thr Ile Ser Ser Gln Leu Asp Phe Asn Thr Thr Arg Asn His Thr
210 215 220
Ile Lys Cys Leu Ile Lys Tyr Gly Asp Ala His Val Ser Glu Asp Phe
225 230 235 240
Thr Trp Glu Lys Pro Pro Glu Asp Pro Pro Asp Ser Lys Asn Thr Leu
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Val Val Ile Ile Lys Cys Phe Cys Lys His Arg Ser Cys Phe Arg Arg
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Leu His Asn Val Gln Ile Lys Asp Met Gly Ser Tyr Asp Cys Phe Ile
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165 170 175

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180 185 190

Glu Leu Phe Ser Ile Ser Asn Ser Leu Ser Leu Ser Phe Pro Asp Gly
195 200 205

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Ile Ser Ser Lys Pro Leu Asn Phe Thr Gln Glu Phe Pro Ser Pro Gln
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Arg Pro Ser Asn Thr Ala Ser Lys Leu Glu Arg Asp Ser Asn Ala Asp
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<213> Mus musculus

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Ser His Cys Thr Ala Leu Glu Lys Thr Gln Cys His Pro Cys Asp Ser
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Gly Glu Phe Ser Ala Gln Trp Asn Arg Glu Ile Arg Cys His Gln His
65 70 75 80

Arg His Cys Glu Pro Asn Gln Gly Leu Arg Val Lys Lys Glu Gly Thr
85 90 95

Ala Glu Ser Asp Thr Val Cys Thr Cys Lys Glu Gly Gln His Cys Thr
100 105 110

Ser Lys Asp Cys Glu Ala Cys Ala Gln His Thr Pro Cys Ile Pro Gly
115 120 125

Phe Gly Val Met Glu Met Ala Thr Glu Thr Thr Asp Thr Val Cys His
130 135 140

Pro Cys Pro Val Gly Phe Phe Ser Asn Gln Ser Ser Leu Phe Glu Lys
145 150 155 160

Cys Tyr Pro Trp Thr Ser Cys Glu Asp Lys Asn Leu Glu Val Leu Gln
165 170 175

Lys Gly Thr Ser Gln Thr Asn Val Ile Cys Gly Leu Lys Ser Arg Met
180 185 190

Arg Ala Leu Leu Val Ile Pro Val Val Met Gly Ile Leu Ile Thr Ile
195 200 205

Phe Gly Val Phe Leu Tyr Ile Lys Lys Val Val Lys Lys Pro Lys Asp
210 215 220

Asn Glu Met Leu Pro Pro Ala Ala Arg Arg Gln Asp Pro Gln Glu Met
225 230 235 240

Glu Asp Tyr Pro Gly His Asn Thr Ala Ala Pro Val Gln Glu Thr Leu
245 250 255

His Gly Cys Gln Pro Val Thr Gln Glu Asp Gly Lys Glu Ser Arg Ile
260 265 270

Ser Val Gln Glu Arg Gln Val Thr Asp Ser Ile Ala Leu Arg Pro Leu

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Val

<210> 13
 <211> 994
 <212> DNA
 <213> Porcus spp

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 aacctaagcc tggatgagct ggtcatattt tggcaggacc aggataacct gggtctctac 180
 gagctatacc gaggccaaaga gaagcctcat aatgttaatt ccaagtatat gggtcgcaca 240
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 tcatatcaat gtttcatcca tcataaaggg ccgcatggac ttgttcctat ccaccagatg 360
 agttctgacc tatcattgct tgctaacttc agtcaacctg aaataaacct acttactaat 420
 cacacagaaa attctgtcat aaatttgacc tgctcatcta cacaaggcta cccagaacct 480
 cagaggatgt atatgttgct aaatacgaag aattcaacca ctgagcatga tgctgacatg 540
 aagaaatctc aaaataacat cacggaactc tacaatgtat caatcagggt gtctcttccc 600
 atccctcccg agacaaatgt gagcatcgtc tgtgtcctgc aacttgagcc aagcaagaca 660
 ctgcttttct ccctaccttg taatatagat gcaaagccac ctgtgcaacc ccctgtccca 720
 gaccacatcc tctggattgc agctctactt gtaacagtgg tcgttggtg tggtggtg 780
 tcctttgtaa cactaaggaa aaggaagaag aagcagcctg gcccctctaa tgaatgtggt 840
 gaaaccatca aaatgaacag gaaggcgagt gaacaaacta agaacagagc agaagtccat 900
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<210> 14
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 <212> PRT
 <213> Porcus spp

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 Pro Cys His Phe Thr Asn Ser Gln Asn Leu Ser Leu Asp Glu Leu Val
 35 40 45
 Ile Phe Trp Gln Asp Gln Asp Asn Leu Val Leu Tyr Glu Leu Tyr Arg
 50 55 60
 Gly Gln Glu Lys Pro His Asn Val Asn Ser Lys Tyr Met Gly Arg Thr
 65 70 75 80
 Ser Phe Asp Gln Ala Thr Trp Thr Leu Arg Leu His Asn Val Gln Ile
 85 90 95
 Lys Asp Lys Gly Ser Tyr Gln Cys Phe Ile His His Lys Gly Pro His
 100 105 110
 Gly Leu Val Pro Ile His Gln Met Ser Ser Asp Leu Ser Leu Leu Ala
 115 120 125

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Asn	Phe	Ser	Gln	Pro	Glu	Ile	Asn	Leu	Leu	Thr	Asn	His	Thr	Glu	Asn
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Ser	Val	Ile	Asn	Leu	Thr	Cys	Ser	Ser	Thr	Gln	Gly	Tyr	Pro	Glu	Pro
145					150					155					160
Gln	Arg	Met	Tyr	Met	Leu	Leu	Asn	Thr	Lys	Asn	Ser	Thr	Thr	Glu	His
				165					170					175	
Asp	Ala	Asp	Met	Lys	Lys	Ser	Gln	Asn	Asn	Ile	Thr	Glu	Leu	Tyr	Asn
			180					185					190		
Val	Ser	Ile	Arg	Val	Ser	Leu	Pro	Ile	Pro	Pro	Glu	Thr	Asn	Val	Ser
		195					200					205			
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	210					215					220				
Leu	Pro	Cys	Asn	Ile	Asp	Ala	Lys	Pro	Pro	Val	Gln	Pro	Pro	Val	Pro
225					230					235					240
Asp	His	Ile	Leu	Trp	Ile	Ala	Ala	Leu	Leu	Val	Thr	Val	Val	Val	Val
				245					250					255	
Cys	Gly	Met	Val	Ser	Phe	Val	Thr	Leu	Arg	Lys	Arg	Lys	Lys	Lys	Gln
			260					265					270		
Pro	Gly	Pro	Ser	Asn	Glu	Cys	Gly	Glu	Thr	Ile	Lys	Met	Asn	Arg	Lys
		275					280					285			
Ala	Ser	Glu	Gln	Thr	Lys	Asn	Arg	Ala	Glu	Val	His	Glu	Arg	Ser	Asp
		290				295					300				
Asp	Ala	Gln	Cys	Asp	Val	Asn	Ile	Leu	Lys	Thr	Ala	Ser	Asp	Asp	Asn
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<211>	837
<212>	DNA
<213>	Porcus

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tgcccgccag	gacagaaact	ggtgaaccac	tgcacagagg	tactgaaac	agaatgcctt	180	
ccttgacgtt	ccagcgaatt	cctagccacc	tggaatagag	agaaacactg	tcatcagcac	240	
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ttgcacagct	tgtgcttccc	tggcctcggt	gtcaagcaga	tggcgacaga	ggtttctgac	420	
actatctgtg	aaccctgccc	agttggcttc	ttctccaatg	tatcatctgc	ttcagaaaag	480	
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aagaccgatg	ttgtctgtgg	tttccagagt	cgatgagag	ccctggtggt	tatccccatc	600	
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gagcaggaga	ctaaggccct	gcaccctaag	actgaaaggc	aggatccctg	ggagacgatt	720	
gactctggag	attttccgga	ctccaccgct	ccggtgcagg	agaccttaca	ttggtgccag	780	
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<210> 16
 <211> 278
 <212> PRT
 <213> Porcus

<400> 16

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			20					25					30		
Thr	Asn	Ser	Arg	Cys	Cys	Asn	Leu	Cys	Pro	Pro	Gly	Gln	Lys	Leu	Val
		35					40					45			
Asn	His	Cys	Thr	Glu	Val	Thr	Glu	Thr	Glu	Cys	Leu	Pro	Cys	Ser	Ser
	50					55					60				
Ser	Glu	Phe	Leu	Ala	Thr	Trp	Asn	Arg	Glu	Lys	His	Cys	His	Gln	His
65					70					75					80
Lys	Tyr	Cys	Asp	Pro	Asn	Leu	Gly	Leu	Gln	Val	Gln	Arg	Glu	Gly	Thr
				85					90					95	
Ser	Lys	Thr	Asp	Thr	Thr	Cys	Val	Cys	Ser	Glu	Gly	His	His	Cys	Thr
			100					105					110		
Asn	Ser	Ala	Cys	Glu	Ser	Cys	Thr	Leu	His	Ser	Leu	Cys	Phe	Pro	Gly
		115					120					125			
Leu	Gly	Val	Lys	Gln	Met	Ala	Thr	Glu	Val	Ser	Asp	Thr	Ile	Cys	Glu
	130					135					140				
Pro	Cys	Pro	Val	Gly	Phe	Phe	Ser	Asn	Val	Ser	Ser	Ala	Ser	Glu	Lys
145					150					155					160
Cys	Gln	Pro	Trp	Thr	Ser	Cys	Glu	Ser	Lys	Gly	Leu	Val	Glu	Gln	Arg
				165					170					175	
Ala	Gly	Thr	Asn	Lys	Thr	Asp	Val	Val	Cys	Gly	Phe	Gln	Ser	Arg	Met
			180					185						190	
Arg	Ala	Leu	Val	Val	Ile	Pro	Ile	Thr	Leu	Gly	Ile	Leu	Phe	Ala	Val
		195					200					205			
Leu	Leu	Val	Phe	Leu	Cys	Ile	Arg	Lys	Val	Thr	Lys	Glu	Gln	Glu	Thr
	210					215					220				
Lys	Ala	Leu	His	Pro	Lys	Thr	Glu	Arg	Gln	Asp	Pro	Val	Glu	Thr	Ile
225					230					235					240
Asp	Leu	Glu	Asp	Phe	Pro	Asp	Ser	Thr	Ala	Pro	Val	Gln	Glu	Thr	Leu
				245					250					255	
His	Trp	Cys	Gln	Pro	Val	Thr	Gln	Glu	Asp	Gly	Lys	Glu	Ser	Arg	Ile
			260					265						270	
Ser	Val	Gln	Glu	Arg	Gln										
					275										

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SECRET

Ile Ala Met Arg Met Glu Asp Ser Gly Ile Tyr Val Cys Glu Gly Val
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<211> 807
<212> DNA
<213> Vacca spp

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tctgtcggt	aaggcgaatt	cttgctccacc	tggaacagag	agaaataact	tcacgagcac	240	
agatactgca	accccaacct	agggctccgg	atccagagcg	agggtaacct	gaatacagac	300	
accattttgt	tatgtgtcga	aggccaacac	tgtaccagtc	acacctgcga	aaagtgcacg	360	

ccccacagct	tgtgtctccc	tggcttcggg	gtcaagcaga	tcgctacagg	gcttttggat	420
accgtctgtg	aaccctgccc	gctcggcttc	ttctccaacg	tgtcatctgc	ttttgaaaag	480
tgtcaccggt	ggacaagctg	cgagagaaaa	ggcctggtgg	aacaacacgt	ggggacgaac	540
aagacagatg	ttgtctgcgg	tttcagagt	cggatgagga	ccctggtggt	gatccccgtc	600
acgatgggag	tcttgtttgc	tgtcctgttg	gtatctgcct	gtatcaggaa	cataaccaag	660
aagcggcagc	taaggccctg	cacctatgg	ctgaaaggca	ggatcccgtg	gagacgattg	720
atccggagga	ttttcccggc	ccccaccgc	ctctccggtg	caagagacct	tatgctggtg	780
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<210> 19
<211> 269
<212> PRT
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Leu Met Leu Val Ser Ala Gly Arg Pro Gly Gly Arg Gln
260 265

<210> 20
<211> 867
<212> DNA
<213> Vacca spp

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gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatgggtgc tgactatgat gtctggggac 240
atgaatatat ggcccagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgatcc tggctctgcg cccatctgac gagggcacat acgagtgtgt tgttctgaag 360
tatgaaaaag acgctttcaa gcgggaacac ctggctgaag tgacgttatc agtcaaagct 420
gacttcctta cacctagtat atctgacttt gaaattccaa cttctaatat tagaaggata 480
atttgctcaa cctctggagg ttttcagag cctcacctct cctggttgga aaatggagaa 540
gaattaaatg ccatcaacac aacagtttcc caagatcctg aaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tgggaatacaa ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg ggccattacc ttaatctcag taaatggaat ttttgtgata 780
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agaagggaaa gtgtacgccc tgtataa 867

<210> 21
<211> 35
<212> DNA
<213> Porcus spp

<400> 21
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<210> 22
<211> 34
<212> DNA
<213> Porcus

<400> 22
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<210> 23
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<400> 23
agaccgtctt ccttttag 17

<210> 24
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<210> 25
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<400> 26
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<210> 27
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<400> 27
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<210> 28
<211> 58
<212> DNA
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<400> 28
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<210> 29
<211> 29
<212> DNA
<213> Porcus spp

<400> 29
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<210> 30
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chimeric peptide

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5

10

15

Arg Ser Phe Asp Gln Ala Thr Trp Thr Leu Arg
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<210> 31

<211> 26

<212> PRT

<213> Artificial Sequence

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chimeric peptide

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Arg Leu Pro Cys His Phe Thr Asn Ser Gln
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chimeric peptide

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chimeric peptide

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Arg Gly Leu Val Pro Ile His Gln Met Ser
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<210> 34

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chimeric peptide

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<210> 35

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chimeric peptide

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<210> 36

<211> 29

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chimeric peptide

<400> 36

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<210> 37

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Arg Ala Ser Leu Lys Ser Gln Ala Tyr Phe Asn Glu Thr

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Arg Tyr Met Gly Arg Thr Ser Phe Asp Gln Ala Thr Trp Thr
20 25 30

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Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg

SECRET